Section II: Other LAER/BACT Determinations

Application No.: 9788

Equipment Category – I.C. Engine, Landfill Gas Fired

1.	GENERAL INFORMATION			DATE: 9/8/200	4
Α.	MANUFACTURER: Caterpillar				
B.	TYPE: Large Bore, Spark-Ignited	C.	MODEL:	G3616	
D.	STYLE: 16-cylinder				
E.	APPLICABLE AQMD RULES:				
F.	COST: \$ (NA) SOURCE OF C	COST D	ATA:		
G.	OPERATING SCHEDULE: 24 HRS/DAY		7 DA	YS/WK	52 WKS/YR
2.	EQUIPMENT INFORMATION			APP. NO.: 9788	
A.	FUNCTION: Drives 3.1 MW generator produ	cing	power fo	r sale to the gri	d.
B.	MAXIMUM HEAT INPUT: 32.93 MMBtu/hr (LHV)	, C.	MAXIMUM	THROUGHPUT: 42	31 bhp
	from manufacturer spec sheet)				
D.	BURNER INFORMATION: NO.: TY	/PE:			
E.	PRIMARY FUEL: Landfill Gas	F.	OTHER FL	JEL: None	
G.					
3.	COMPANY INFORMATION			APP. NO.: 9788	
Α.	NAME: MM Tajiguas Energy LLC			•	B. SIC CODE: 4953
C.	ADDRESS: Tajiguas Landfill, 14470 Calle Real CITY: Goleta STATE: CA ZIP:				
D.	CONTACT PERSON: Dan Kelly			E. PHONE NO.:	805-968-7594
4.	PERMIT INFORMATION			APP. NO.: 0788	
				7700	
Α.	AGENCY: SBCAPCD	B.	APPLICAT	new co	onstruction
C.	AGENCY CONTACT PERSON: Mike Goldman			D. PHONE NO.:	805-961-8821
E.	PERMIT TO CONSTRUCT/OPERATE INFORMATION: P/	C NO.:	9788-04	ISSUA	NCE DATE: 1/9/1998
	CHECK IF NO P/C	O NO.:	9788	ISSUA	NCE DATE: 2/20/2002
F.	START-UP DATE: 6/30/1998				

5.	EMISSION INFORMATION	APP. NO.: 9788		
A.	PERMIT			
A1.		Triennial source test for PM10. We ssion limits not applicable within 15 n erate less than 90% of rated MW capany as H2S. Heat input (MMBtu) not the second	.066 g/bhp-hr. ekly NOx check ninutes of acity (2790	
A2.	BACT/LAER DETERMINATION: NOx: 108 ppmvc 20 ppmvd@3%O2 as hexane and either	1@3%O2 (0.149 lb/MMBtu) or 0.53 ger .061 lb/MMBtu or 0.216 g/bhp-hr.		
A3.	BASIS OF THE BACT/LAER DETERMINATION: $SCAQM$	ID, BAAQMD and SJVUAPCD BAC	T data bases	
В.	CONTROL TECHNOLOGY			
B1.	MANUFACTURER/SUPPLIER: Caterpillar			
B2.	TYPE: Engine Design and Landfill Gas	Conditioning System		
B3.	DESCRIPTION: Engine Design: air/fuel rate turbocharged, intercooled induction air condensate scrubber and filter.	io controller, spark timing and duration r system. Landfill Gas Conditioning S		
B4.	CONTROL EQUIPMENT PERMIT APPLICATION DATA:	P/C NO.: ISSUANCE DAT P/O NO.: ISSUANCE DAT		
B5.	WASTE AIR FLOW TO CONTROL EQUIPMENT:	FLOW RATE:		
	ACTUAL CONTAMINANT LOADING:	BLOWER HP:		
B6.	WARRANTY:			
B7.	PRIMARY POLLUTANTS: NOx, CO, VOC, PM	110, SOx		
B8.	SECONDARY POLLUTANTS:			
B9.	SPACE REQUIREMENT:			
B10.	LIMITATIONS:		B11. UNUSED	
B12.	OPERATING HISTORY: Engine has been in rea	gular use since startup.		
B13.	UNUSED ENGINE Has been in Teg	B14. UNUSED		
C.	CONTROL EQUIPMENT COSTS			
C1.		LLATION COST IS INCLUDED IN EQUIPMENT COST		
	EQUIPMENT: \$ INSTALLATION: \$	(NA) SOURCE OF COST DATA:		
C2.	ANNUAL OPERATING COST: \$ (NA)	SOURCE OF COST DATA:		
D.	DEMONSTRATION OF COMPLIANCE			
D1.	STAFF PERMFORMING FIELD EVALUATION: ENGINEER'S NAME: INSI	PECTOR'S NAME: DATE:		
D2.	COMPLIANCE DEMONSTRATION:			
D3.	VARIANCE: NO. OF VARIANCES: None	DATES:		

5 .	EMISSION INFORMATION			APP. NO.:	9788		
D4.	VIOLATION: NO. OF VIOLATIONS: CAUSES:	None	DATES:				
D5.	MAINTENANCE REQUIREMENTS:					D6.	UNUSED
D7.	DATE OF SOURCE TEST: DATE OF SOURCE TEST: May 2002, May DESTRUCTION EFFICIENCY: SOURCE TEST/PERFORMANCE DATA:		CAPTURE EFF			,	
Dat	te	5/9/02	5/28/03	}			
Heat Input, MMBtu/hr		33.08	33.76				
Generator Output, kW		2,827	3,028				
NOx, ppmvd@3%O2		90	88				
NC	x, lb/hr	3.94	3.90				
NOx, lb/MMBtu		0.119	0.116				
CO, lb/hr		14.34	18.57				
NMOC, ppmvd@3%O2 as hexane		16	18				
NMOC, lb/hr		1.46	1.67				
NM	OC, lb/MMBtu OPERATING CONDITIONS:	.044	.049				
TEST METHODS: NOx-USEPA Method 7E, CO-USEPA Method 10, NMOC-USEPA Method 25.3. Test report approved by SBCAPCD.				ethod			

6.	COMMENTS	APP. NO.: 9788